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153 155 157 171 172 174 182 185 191 200 206 210 212 227 231 237 24&
243 250 257 27& 272 300 310 311 318 324 327 334 397 423 431 436 442
445 477 50& 51& 53& 532 533 534 537 58& 623 626 679 681

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KS - 0007 0231 0306 0488 1275 1283 1536 1715 1729 1745 2000 2105 2122 2272
2276 2375 2430 2436 2504 2575 2725 2729 3002 3105 3249 3275

MC - A07-B03 A08-S05 A08-S06 A10-E01 A11-A03 A12-W06B E07-A03C F05-A06C
L02-D14Q

M3 - [01] F012 F013 F014 F017 F100 H7 H720 J5 J521 L9 L942 M210 M211 M212
M213 M214 M215 M216 M220 M221 M222 M223 M224 M225 M226 M231 M232 M233
M240 M281 M282 M312 M313 M314 M315 M316 M321 M331 M332 M333 M334 M341
M413 M510 M521 M530 M540 M782 M903 M904 Q130 Q140 Q324 Q453 R022;
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- [02] H1 H100 H102 H182 H183 J0 J011 J3 J371 M225 M226 M231 M232 M233
M262 M281 M312 M322 M323 M332 M342 M383 M392 M393 M416 M620 M782 M903
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PA - (KIND) KINDAI KAGAKU KOGYO KK

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C08J-003/03 ; D21H-017/00 ; D21H-021/14

AB - J04100994 Prodn. comprises emulsion dispersion of alkylketene dimer at
50-70 deg.C. using a dispersant of cationic water-soluble resin obtd.
by reaction of 12-22C satd. fatty acid with polyalkylenepolyamine, by
the reaction of the reaction prod. with an inorganic acid, an organic
acid or a quaternising agent added to it, and the treatment by a high
pressure emulsifier after the emulsion dispersion.

- Prodn. of the aq. emulsion by emulsion polymerisation of styrene, or
its deriv. and acrylic monomer using the dispersant of the cationic
water-soluble resin and treatment by high pressure emulsifier after
the emulsion dispersion of the alkylketene dimer by using the
dispersant of the obtd. cationic water-soluble resin is also new.

- USE/ADVANTAGE - The method is applied to the prodn. of a sizing agent
in paper mfr. or prodn. of waterproof agent for cement or gypsum. The
use of the sizing agent obtd. improves deficient development of sizing
effect in paper mfr.. (0/0)

- (Dwg.0/0 at 14)

CN - 9220-C0201-M 9220-C0202-M

IW - PRODUCE AQUEOUS EMULSION SURFACE SIZE PAPER EMULSION DISPERSE ALKYL
KETENE DIMER CATION WATER SOLUBLE RESIN DISPERSE OBTAIN REACT FATTY
ACID POLY ALKYLENE POLY AMINE

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(19)



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(54) PREPARATION OF AQUEOUS EMULSION

(57) Abstract:

PURPOSE: To prepare the subject product useful as a sizing agent for paper or a water-preventing agent for cement by emulsifying and dispersing an alkyl ketene dimer in the presence of a dispersing agent comprising a product and treating the emulsion and dispersion product with a high pressure emulsifier, the product being prepared by reacting a higher saturated fatty acid with a polyalkylene polyamine and subsequently reacting the reaction product with an acid, etc.

CONSTITUTION: A 12-22C saturated fatty acid (preferably stearic acid) is dehydration-reacted with a polyalkylene polyamine (preferably tetraethylene pentamine or triethylene tetramine) preferably at 180-220°C and allowed to react with an inorganic acid, organic acid or quartering agent. An alkyl ketene dimer is emulsified and dispersed in said prepared cationic water-soluble resin as a dispersing agent at 50-70°C and subsequently treated with a high pressure emulsifying machine to provide the objective emulsion.

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